

193-20-416-0000

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # # 4615
Name K.C. Resources
Address 2704 16th St
City/State/Zip Great Bend, KS 67530
Purchaser NA
Operator Contact Person Kevin M. Casey
Phone 316-792-4445

Contractor: License # 06333
Name DAMAR
Wellsite Geologist BOBBY J. BEARD
Phone 316-792-8141

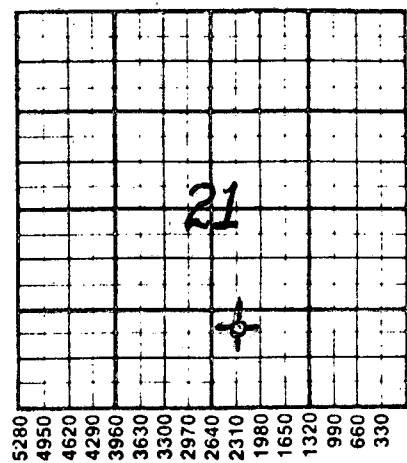
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)
If **OWNO**: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth.....

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
10-3-86 10-13-86 10-13-86 NA
Spud Date Date Reached TD Completion Date
4700'
Total Depth PBD
Amount of Surface Pipe Set and Cemented at 265 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set.....feet
If alternate 2 completion, cement circulated from.....feet depth to.....w/.....SX cmt
Cement Company Name B.J. TITAN
Invoice #

API NO. 15-.....
County..... THOMAS
NW SW SE 21 Sec. 21 Twp. 10S Rge. 31 East West
1990 Ft North from Southeast Corner of Section
2310 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)
Lease Name..... Ottley Well #..... 1
Field Name..... Wildcat
Producing Formation..... NA
Elevation: Ground..... 2995' KB..... 3004'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:

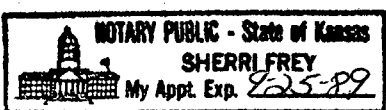
Water Resources Board (913) 296-3717 Does NOT apply.
Source of Water:
Division of Water Resources Permit #.....
Groundwater 2640 Ft North from Southeast Corner
(Well) 2640 Ft West from Southeast Corner of
Center Sec 28 Twp. 10S Rge. 31 East West
Surface Water.....Ft North from Southeast Corner
(Stream, pond etc).....Ft West from Southeast Corner
Sec Twp Rge East West
Other (explain).....
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply.
Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months.
One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Kevin M. Casey
Title President Date 7-28-87
Subscribed and sworn to before me this 28th day of July 1987
Notary Public Sherril Frey
Date Commission Expires 9/25/89

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)



SEP 3 1987
9-3-87
CONSERVATION DIVISION
Wichita, Kansas

Sec 21 Twp 10S Rge 31W

Operator Name K. C. Resources Lease Name Ottley Well # 1

Sec. 21 Twp. 10S Rge. 31 East West County THOMAS

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
Samples Sent to Geological Survey Yes No
Cores Taken Yes No

Formation Description Log Sample

DST #1 30-60-60-120
80' mud w/oil spots
180' muddy water (60% w, 40% m)
BHP (1268-1257#)
FP (45-58#) (57-126#)
HSH (2026-1916#)
122° DST #1 4095-4180
DST #2 30-60-45-45
10' slight oil out mud (2% o)
BHP (186-64#)
FP (52-52#) (52-52#)
HSH (2129-2111#)
122° DST #2 4195-4260
DST #3 50-60-45-60
10' mud w/oil spots
60' watery mud
BHP (1374-1347#)
FP (34-46#) (65-71#)
HSH (2147-2147#)
124° DST #3 4260'-4330'

DST #4 45-60-45-60
140' w/mud w/oil spots ~~2129-2111#~~
(80% water, 20% mud)
840' muddy water w/oil spots
(80% water, 20% mud)
BHP (1148-1138#)
FP (66-260#) (302-449#)
HSH (2328-2304)
131°
DST #4 4560' - 4645'

Name	Sample	Top Log	Bottom
Topeka	3782	3782	-778
Heebner	4000	4002	-998
TORONTO	4028	4028	-1024
LANSING	4043	4044	-1040
BKC	4324	4320	-1316
MARMATON	4358	4356	- 1352 1352
Pawnee	4446	4438	-1434
Fort Scott	4510	4505	-1501
Mississippi	4625	4625	-1621
RTD	4700	XXXX	XXXXX
LTD	XXXX	4697	-1693

CASING RECORD New Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
<u>SURF</u>	<u>12 1/4</u>	<u>8 5/8</u>	<u>24.16</u>	<u>265'</u>	<u>68/40ms</u>	<u>100</u>	<u>2% 3%</u>

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First Production DNA Producing Method Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	Bbls	MCF	Bbls	CFPB	

METHOD OF COMPLETION DNA Production Interval

Disposition of gas: Vented Open Hole Perforation
DNA Sold Other (Specify)
 Used on Lease Dually Completed
 Comingled

Bobby J. Beard Inc.
CONSULTING PETROLEUM GEOLOGY

1622 MAIN
P.O. DRAWER 1910
GREAT BEND, KANSAS 67530

OFFICE (316) 792-8141
MOBILE (316) 792-0712

ORIGINAL

GEOLOGIST REPORT

K. C. RESOURCES
OTTLEY #1
NW SW SE
21-10s-31w
THOMAS COUNTY, KS

RECEIVED
STATE GEOLOGICAL COMMISSION
JUN 22 1990
CONSERVATION DIVISION
Wichita, Kansas

OPERATOR: K. C. Resources
CONTRACTOR: Damac Rig #6
COMMENCED: 10/3/86
COMPLETED: 10/13/86
SURFACE CASING: 8 5/8" @ 265'
PRODUCTION CASING: None
LOGGING: Schlumberger
TESTING: Western Testing
SAMPLES: 10 foot intervals from 3700' to 4700' RTD
DRILLING TIME: 1 foot intervals from 3600' to 4700' RTD
DRILLING MUD: Davis Mud and Chemical (Chemical mud system)
ELEVATION: Kelly Bushing 3004' Ground Level 2995'

<u>FORMATIONS</u>	<u>SAMPLE TOPS</u>	<u>E-LOG TOPS</u>	<u>SUB SEA DATUM</u>
Topeka	3782	3782	-778
Heebner	4000	4002	-998
Toronto	4028	4028	-1024
Lansing	4043	4044	-1040
Base K.C.	4324	4320	-1316
Marmaton	4358	4356	-1352
Pawnee	4446	4438	-1434
Fort Scott	4510	4505	-1501
Mississippi	4625	4625	-1621
R.T.D.	4700	XXXX	XXXXX
L.T.D.	XXXX	4697	-1693

SAMPLE SHOWS (All measurements taken from Geologic Log)

Topeka 3697-3972 Limestone, fine crystalline, fair intercrystalline porosity, scattered show of dead tarry oil, slight florescent cut.

Lansing

4127-4131 Limestone, cream colored, fossiliferous, scattered fair pinpoint porosity with a few pieces with trace show of free oil, no stain and no odor or florescence.

4157-4160 Limestone, cream, trace stain, very slight show of tarry oil, no odor.

DRILL STEM TEST #1 4095-4180 Lansing

ORIGINAL

Time Intervals: 30-60-60-120
 Recovery: 80' mud with oil spots
 180' muddy water (60% W, 40% M)
 Pressures: BHP (1268-1257#)
 FP (45-58#)(87-126#)
 HSH (2026-1996#)
 Temperature: 122°

Kansas City

4198-4202 Limestone, cream to gray, fossiliferous, fair fossil cast porosity, good show of free oil and stain, gassy, good odor and florescence.

4221-4226 Pale green, dense, tight sand, clean, not friable, calcitic cement, no shows.

4230-4233 Limestone, cream colored, fine crystalline, dense, some pinpoint porosity with a fair show of free oil and stain, no odor and slight florescence.

4247-4251 Limestone, cream colored, fossiliferous, fair fossil cast porosity, some pinpoint porosity, fair show of free oil and stain, fair florescence, no odor.

DRILL STEM TEST #2 4195-4260 Lansing

Time Intervals: 30-60-45-45
 Recovery: 10' slight oil cut mud (2% O)
 Pressures: BHP (186-64#)
 FP (52-52#)(52-52#)
 HSH (2129-2111#)
 Temperature: 122°

RECEIVED
 STATE COMMISSION
 JUN 22 1990
 CONSERVATION DIVISION
 Wichita, Kansas

Kansas City

4272-4276 Limestone, tan, mostly gray, fossiliferous, trace stain and very slight show of free oil.

4285-4290 Limestone, cream, fossiliferous, some chalky, most fine crystalline with fair saturation and slight stain. Good odor, fair intercrystalline porosity and light gravity, show of free oil.

4315-4318 Limestone, tan, cherty, some florescence, mostly barren. No visible show of free oil or stain.

DRILL STEM TEST #3 4260-4330 Lansing

Time Intervals: 50-60-45-60
 Recovery: 10' mud with oil spots
 60' watery mud
 Pressures: BHP (1374-1347#)
 FP (34-46#)(65-71#)
 HSH (2147-2147#)
 Temperature: 124°

ORIGINAL

Marmaton

4420-4430 Limestone, cream colored, fine crystalline, some scattered slight stain, dark brown, dead appearing, some florescence.

Pawnee

4457-4460 Limestone, tan, fine crystalline, some chalky, poorly developed visible porosity. One piece with trace show of free oil and poor stain. No odor.

4489-4493 Limestone, cream color, poor visible porosity, scattered trace stain with slight florescence.

Cherokee Lime

4570-4574 Limestone, gray, fine crystalline, dense, tight, poor visible porosity plus white chalky fossiliferous limestone with trace to fair show of free oil and stain. No odor, chalky.

4580-4585 Limestone, cream colored, fine crystalline, fossiliferous to pinpoint porosity, trace to fair show of free oil and light brown stain. No odor plus some sand, fine grained, well sorted gilsonitic "dead" stain, friable, no odor or florescence.

Cherokee Lime

4598-4602 Sand, fine grained, white odor, no visible stain or shows. Fine grained, well sorted, no shows of free oil or florescence.

Mississippi

4628-4634 Limestone, gray, fossiliferous, scattered fossiliferous to pin-point porosity in most with no shows. (Dolomite in appearance although a vigorous reaction to Hydrochloric acid indicating limestone.)

DRILL STEM TEST #4 4560-4645 Miss and Lower Cher Lime

Time Intervals:	45-60-45-60	
Recovery:	140' watery mud with oil spots (80% W, 20% M)	
	840' muddy water with oil spots (80% W, 20% M)	
Pressures:	BHP (1148-1138#)	
	FP (66-260#)(302-449#)	
	HSH (2328-2304#)	
Temperature:	131°	ORIGINAL

No other shows were encountered in this well. Rotary total depth was 4700' (-1696).

RECOMMENDATIONS

Upon evaluation of samples, electric logs, and drill stem tests, it was recommended and agreed to by operator to plug and abandon the #1 Ottley.

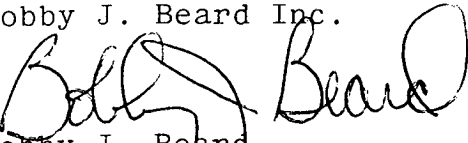
Although an excellent structural position was indicated by seismic and later confirmed by this test hole, no commercial quantities of oil or gas were evidenced.

This lack of economic oil or gas recovery can be attributed to poor reservoir quality within the several potentially productive formations. Evidence would indicate the lack of a trapping mechanism within this immediate area and certainly in this particular test well.

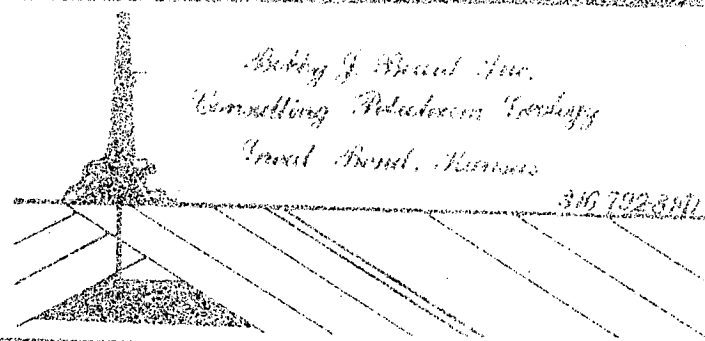
A recommendation to plug and abandon the #1 Ottley at a rotary total depth of 4700' (-1696) was made based on the above evidence.

Respectfully submitted,

Bobby J. Beard Inc.


Bobby J. Beard
President/Geologist

BJB/dc

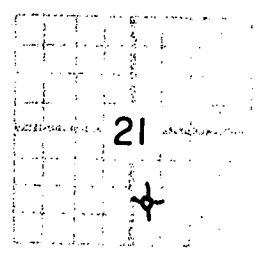


Bobby J. Beard, Inc.
Counselling Petroleum Geology
Grand Blvd., Kansas

316 792-8111

ORIGINAL

COMPANY K.C. RESOURCES
WELL (LEASE) OTTLEY #1
FIELD _____
LOCATION NW-SW-SE
SEC. 21 TWP. 10s RANG. 31w
COUNTY THOMAS STATE KANSAS



GENERAL WELL DATA

OPER K.C. RESOURCES CASING RECORD _____
CONTR DAMAC RIG 6 SURFACE 8⁵/₈ AT 265
COMM 10-3-86 PRODUCTION NONE
COMP 10-13-86 TD DRILL 4700
ELECT SURVEY Schlumberger TD LOG 4697

PRODUCTION D&A ELEVATIONS KB 3004 DP 3002 GL 2995 MEASUREMENT ALL FROM K.B.

FORMATION TOPS AND STRUCTURAL POSITIONS

FORMATIONS	SAMPLE TOP	ELEC LOG TOP	SEA DATUM
TOPEKA	3782	3782	-778
HEEBNER	4000	4002	-998
TORONTO	4028	4028	-1024
LANSING	4043	4044	-1040
BASE K.C.	4324	4320	-1316
MARMATON	4358	4356	-1352
PAWNEE	4446	4438	-1434
FORT SCOTT	4510	4505	-1501
MISSISSIPPI	4625	4625	-1621
R.T.D.	4700	XXXX	XXXX
L.T.D.	XXXX	4697	-1693

RECEIVED
STATE CORPORATION COMMISSION
JUN 22 1990
CONSERVATION DIVISION
Wichita, Kansas

REFERENCE WELLS

- A. _____
- B. _____
- C. _____

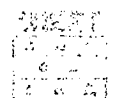
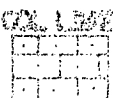
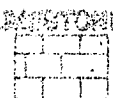
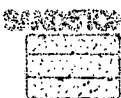
RECOMMENDATIONS / REMARKS

FORMATION	PERFORATE INTERVAL	LOG ANALYSIS	TREATMENT AND REMARKS

ALTHOUGH FAVORABLE STRUCTURAL POSITION WAS ENCOUNTERED ON THE LANSING TOP AS WELL AS THE PAWNEE AND FORT SCOTT FORMATIONS, INSUFFICIENT POROSITY AND LACK OF ECONOMIC SHOWS OF OIL AND GAS DICTATED THAT THIS WELL BE PLUGGED AND ABANDONED AT A ROTARY TOTAL DEPTH OF 4700'.

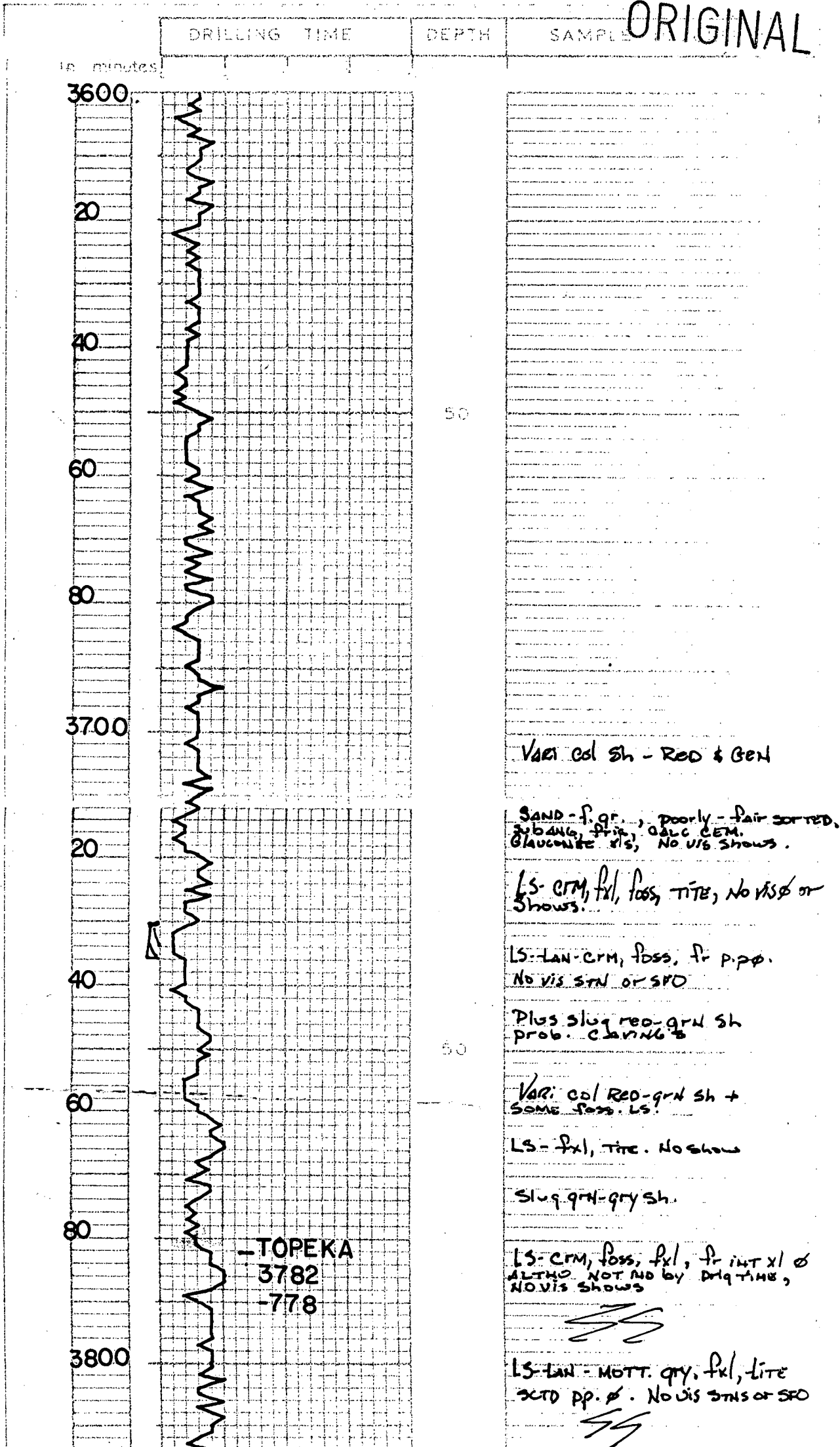
RESPECTFULLY SUBMITTED,
Bobby Beard

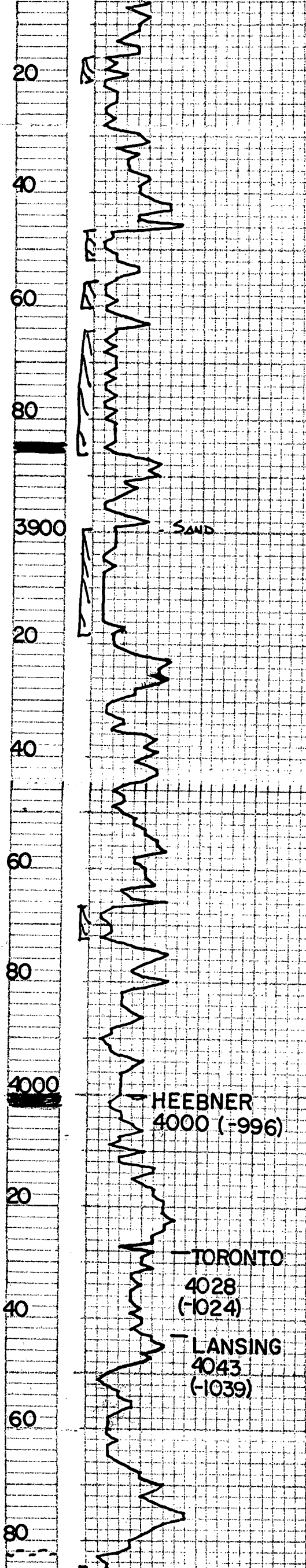
LEGENDS



77-11

ORIGINAL





SS
 Slug vari col sh + foss, chunky
 ls. w/ No show

LS. CRM-qry, fxl, DSE, poorly
 Dev foss est φ. No show

LS. CRM, v. foss, good φ, NO
 Shows, No floor. No cut.

SS
 Black Carb Sh

ORIGINAL

SAND - f. gr., fria, pale
 qm., calc. No vis shows,
 good φ, in some. + chunky in
 most., No vis str or floor or cut.

SAND - f. gr., fria, red silty,
 poor vis φ, No show or cut
 or floor.

LS. tan, DSE, poor vis φ
 HS

LS AS ABOVE + RESS

* LS. fxl, f. int xl φ, SCTD show
 Dead TARRY OIL., SI floor cut

Black Carb. Sh

Vari col qm - red sh +
 silty pale qm mica. sand.
 No shows or floor.

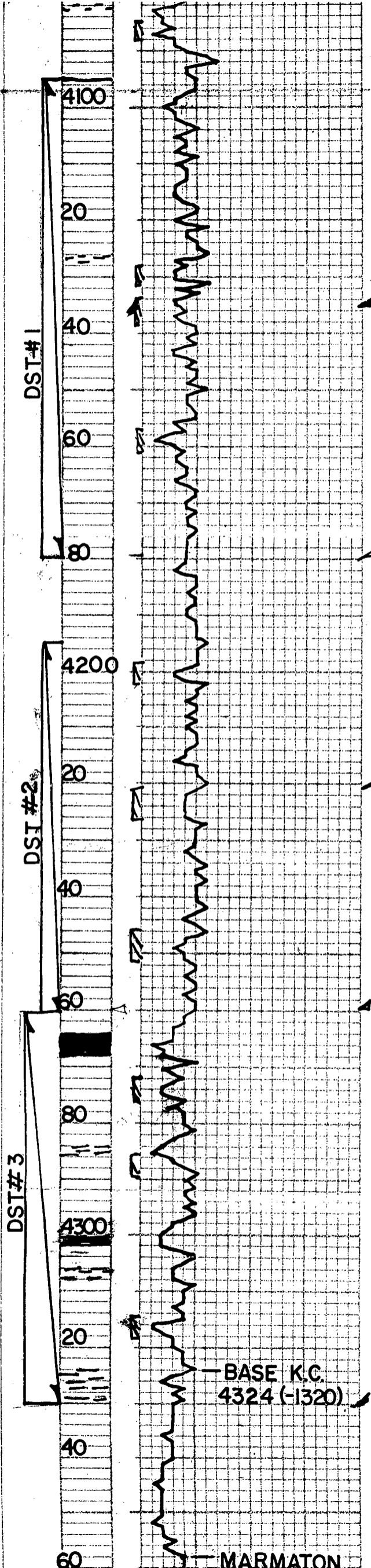
LS. CRM, fxl, DSE, poor vis φ
 No shows

LS. qry, fxl, DSE, foss. Δy
 TITE No shows

LS. CRM - foss, TITE, poor app φ,
 v. foss. to ool, T. STN? No floor.
 No cut

LS. qry fxl, DSE, TITE. No show

1/2 hr



LS-CRM. Pl, foss, SCTD good &
w/ No Shows etc, No floor or cur

LS-CRM-qry, Pl, Dy, mostly
V. TITE. No Shows, SCTD &

LS-CRM, foss, SCTD fr p.p. &
w/ fossils w/ Tr SFS. No STN L
No odor or floor.

LS-qry, Pl, DSE, MOSTLY TITE
w/ No Sh

LS-CRM, Tr STN, V. SL. Show trace
oil. No odor

ORIGINAL

Black Carb Sh

LS-qry, Pl, DSE, No Show

* LS-CRM-qry, foss, fr foss CST &
good SFO & STN, gassy, good odor
& floor.

LS-qry, Pl, DSE, TITE, SCTD Tr-SFO &
foss. AS ABOVE (Prob. COVINGS) + PALE

* 30' only
PALE qm, DSE TITE SAND. Clu, NOT
TITE. Calc. CRM. No Shows

40' only
LS-CRM, Pl, DSE, SOME pp. &
w/ fair SFO & STN. No odor, SL floor

* LS-CRM, foss, fair foss CST & TO
SOME Dm point & fair SFO
& STN, fair floor. No odor

Black Carb Sh.

LS-LAN-MOTT qry, foss. Tr
STN & V. SL Show trace oil.

LS-CRM, foss, SOME Chalky,
MST Pl w/ fr SFS & SL STN.
good odor, fr int Pl & Lt. qm SFO

Shy bluish

LS-qry-MOTT. qry foss. w/
No show

LS-LAN, Dy, SOME floor. MOTT
bore. No vis SFO or STN.

Var. col. red. qm & qry sh

50 SAND: V. qm, PALE qm, MICA, CALC
CRM. No Shows, No odor

LS-CRM. Pl, DSE, poor vis &

DST# 4



MARMATON
4358 (-1354)

LS-LTM, fxl, DSE, poor vis p.
No shows.

LS-Chalky - DSE qry, fxl LS-
NO shows, TITE,

99

LS-Shaley, mottled yellow-qry, LS-
w/No shows

LS-qry, fxl, DSE + slug red sh
-NS-

99

LS-CRM, fxl, Δy, SOME, SCTD
SI STN. DK BRN, DEAD appear., SOME
fleur

99 Mostly barren & TITE +
slug red sh.

PAWNEE
4446 (-1442)

LS-TAN, fxl, SOME chalky.
poor vis vis φ. 1 piece w/
Tr-SFD & poor STN. No odor

ORIGINAL

Black Carb sh

LS-CRM-qry, NO vis φ, poorly
Dev. No show

LS-CRM, poor vis φ. SCTD Tr STN.
SI. fleur.

Black Carb sh

FT. SCOTT
4506 (-1502)

LS-CRM, Δy, fxl, DSE, SCTD fleur
Although NO vis STNS or Shows., TITE.
poorly dev φ

LS-qry, fxl, DSE. No shows.

Blk Carb. sh.

LOWER
CHER. SH.
4542 (-1538)

LS-CRM, floss, SCTD floss CSTD
No vis show.

90
91
LS-qry, fxl, DSE, TITE poor vis φ
& wh. Chalky floss. 1/5 w/ Tr-Fr SFD
& STN. No odor, chalky.

4600
LS-CRM, fxl, floss? to p.p. φ, Tr-Fr SFD
& Tr. brn. STN. No odor. & SOME SAND,
A. gr., well sort. qils. DEAD STN,
fria, NO odor or fleur.

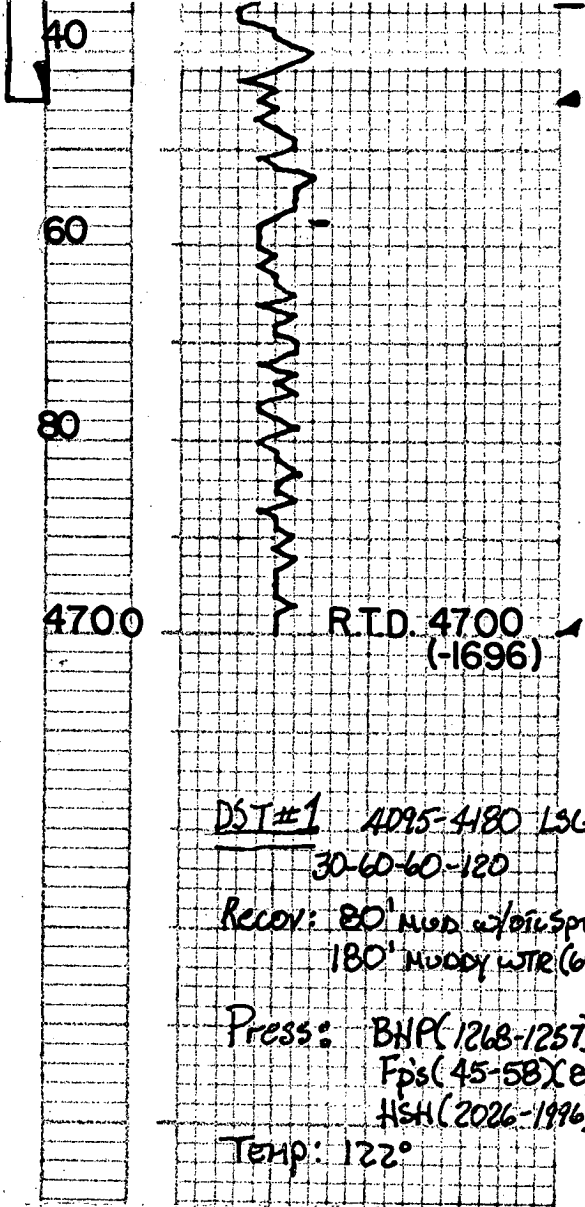
SAND - f. gr. - wh. NO vis STNS or Shows.
f. gr., well sort. NO show fleur
or fleur.

Slug red-qry sh.

TRANS-OP. Δ., Mostly Trails w/
No vis Shows or STNS or fleur.

MISS
4625 (-1621)

LS-qry, floss, SCTD floss - pp φ
p. & 1/2 MET shales



It is in most no shows
(Dilatant in appearance and a vigorous
reaction to HCL)

LS - CRM. gray sh. as above.

LS - gray, mottled LS w/ no show
or show. poor vis. + red grn sh

LS & ALTER. SH. AS ABOVE

DST #1 4095-4180 L56
30-60-60-120
Recov: 80' mud w/oil spts
180' muddy wtr (60% w, 40% m)
Press: BHP (1268-1257)
Fps (45-58) (87-126)
HSH (2026-1996) 50
Temp: 122°

DST #2 4195-4260 L56
30-60-45-45
Recov: 10' sl. OC mud (2% oil)
Press: BHP (186-64)
Fps (52-52) (52-52)
HSH (2129-2111)
Temp: 122°

DST #3 4260-4330 L56
50-60-45-60
Recov: 10' mud w/oil spts
60' wtry mud
Press: BHP (1374-1342)
Fps (34-46) (65-71)
HSH (2147-2147)
Temp: 124°

DST #4 4560-4645 Miss 16
45-60-45-60
Recov: 140' wtry mud w/oil spts
840' muddy wtr w/oil spts 80%
Press: BHP (1148-1138)
Fps (66-260) (302-449)
HSH (2328-2304)
Temp: 131°

DRILLING TIME	DEPTH	SAMPLE	DISC
in minutes			
0	1	2	3
4	5	6	7
8	9	10	

ORIGINAL

DATE OF JOB		
MM	DD	YY
10	13	86

CONTRACT NO. 281441

DIRECT CORRESPONDENCE TO: P.O. BOX 4442 HOUSTON, TX 77210	TERMS: NET 30 DAYS FROM DATE OF CONTRACT	REMIT TO: P.O. BOX 200416 HOUSTON, TX 77216
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ORDER NO.

CUSTOMER

NAME: *KC Resources* NO. *101090005*

ADDRESS: *2545 W 10th*

CITY: *Great Bend* STATE: *K* ZIP CODE: *67530*

AUTHORIZED BY: *John Crowe*

DESCRIPTION OF WELL

WELL NO. *#1* OIL NEW STATE: *Kansas* CODES: *15*

GAS OLD

LEASE NAME: *Ottley* COUNTY/PARISH: *Thomas* CODES: *109*

FIELD NAME: CITY:

OWNER: *Dad Mac Oil* MTA DISTRICT:

LEASE LINES:

SURVEY LINES: *Roy & Larry*

SURVEY: *OCT 21 1986*

DIRECTIONS TO LOCATION: *Oakley 4N-2E* Per.....

SECTION, TOWNSHIP, RANGE: *21-10^s-31^w*

QUADRANT:

JOB INFORMATION

ARRIVED				RELEASED			
HH	MM	DD	YY	HH	MM	DD	YY
1	00	10	86	4	45	10	86

ROUND TRIP MILES:

API OR IC NO.:

TYPE OF JOB: *PTA*

WORKING WELL DEPTH: *2500* FT.

DIST. NO. *3320* DISTRICT NAME: *Oakley KS* SLSMAN NO.:

CONTRACT CONDITIONS

This contract must be signed before the job is started or merchandise delivered. The undersigned is authorized to execute this contract as an Agent of the Customer. As such, the undersigned acknowledges that this contract for services, materials, products and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional substitute terms and/or conditions shall become a part of this contract without the written consent of an Officer of BJ-TITAN SERVICES COMPANY.

SIGNED: *John Crowe* (WELL OWNER: OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF. NO.	SERVICES/MATERIAL	U/M	QUANTITY	PRICE	EXTENSION
1 10109813	Price of Job	cg	1	370.00	370.00
2 10109005	PTM	cg	6	1.50	9.00
3 10430538	8 3/4 Plug	cg	1	9.00	9.00
4 10410504	Common	sk	120	6.10	732.00
5 10415018	Per-mix	sk	80	2.50	200.00
6 10420145	Gel	cut	1720	6.75	1161.00
7 10422008	Cellulose Plugs	lb	25	1.10	27.50
8 10880095	Handling & Drumping	cg	200	.92	184.00
9 10940115	Per Ton Mile	9.5 Tons TM	57	.68	38.76
0					1686.36
1					421.59
2					1264.77
13				05	
14					2779
15				tax	1292.56
16					

SERVICE REPRESENTATIVE: *W. J. Howard* PR. BOOK: *7*

The above material and service ordered by the Customer and received by: *John Crowe* (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

STATE RECEIVED JUN 22 1990 CONSERVATION DIVISION Wichita, Kansas

Discount 25% Tax

WELL SERVICE

PO BOX 4442 HOUSTON, TX 77210

CEMENTING LOG

STAGE NO.

ORIGINAL

Date 10-13-86 District Oakley Ticket No. 281441
 Company KC Resources Rig DeMoe Unit
 Lease Oakley Well No. 01
 County Thomas State KY
 Location Oakley 4N-2E Field _____

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size _____ Type _____ Weight _____ Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. 0.142 Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ Pf _____

LEAD: Pump Time _____ hrs. Type 50/40 Post
10 1/2 Gal Excess _____

Amt. 200 Sks Yield _____ ft³/sk Density _____ Pf _____

TAIL: Pump Time _____ hrs. Type _____ Excess _____

Amt. _____ Sks Yield _____ ft³/sk Density _____ Pf _____

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bl _____

Pump Trucks Used 1453
 Bulk Equip. B-14

Float Equip: Manufacturer _____

Shoe Type _____ Depth _____

Float: Type _____ Depth _____

Centralizers: Quantity _____ Plugs Top _____ Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type _____ Amt. _____ Bbls. Weight _____ Pf _____

Mud Type _____ Weight _____ Pf _____

COMPANY REPRESENTATIVE _____

CEMENTER _____

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls/Min	
						Mix 200sks 60/40 Post 10 1/2 Gal 1sk Colloids
						25sk @ 2500
						120sk @ 1700
						40sk @ 300
						10sk @ 40
						15sk in Bottle
						10sk in Manual
						Log down @ 4:45 PM

15-193-20416-0000

SERVICES/MATERIAL CONTRACT

BJ-TITAN SERVICES COMPANY

ORIGINAL

DATE OF JOB		
MM	DD	YY
10	13	86

CONTRACT NO. **281441**

DIRECT CORRESPONDENCE TO:	TERMS:	REMIT TO:
P.O. BOX 4442 HOUSTON, TX 77210	NET 30 DAYS FROM DATE OF CONTRACT	P.O. BOX 200416 HOUSTON, TX 77216

ORDER NO.

CUSTOMER

NAME: **KC Resources** NO: **101090005**

ADDRESS: **2545 W 10th**

CITY: **Great Bend** STATE: **K** ZIP CODE: **67530**

AUTHORIZED BY: **John Crow**

DESCRIPTION OF WELL

WELL NO. **# 1** OIL NEW STATE: **Kansas** CODES: **15**

GAS OLD

LEASE NAME: **Ottley** COUNTY/PARISH: **Thomas** CITY: **109**

FIELD NAME: _____ MTA DISTRICT: _____

OWNER: **Dad Mac Oils**

LEASE LINES: _____

JOB INFORMATION

ARRIVED				RELEASED			
HH	MM	A	MM DD YY	HH	MM	A	MM DD YY
1	00	X	10 13 86	4	45	X	10 13 86

JOB CODE: _____ TYPE OF JOB: **PTA** API OR IC NO.: _____

AVG. PSI: _____ BUSINESS CODE: _____ INJ. RATE (BPM): _____ WORKING WELL DEPTH: **2500** FT.

SURVEY LINES

ORIGINAL

Ray & Larry

OCT 21 1986

DIRECTIONS TO LOCATION: **Oakley 4N-2E**

SECTION, TOWNSHIP, RANGE: **21-10^S-31^W**

QUADRANT: _____

DIST. NO.: **3320** DISTRICT NAME: **Oakley KS** SLSMAN NO.: _____

CONTRACT CONDITIONS

This contract must be signed before the job is started or merchandise delivered. The undersigned is authorized to execute this contract as an Agent of the Customer. As such, the undersigned acknowledges that this contract for services, materials, products and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional substitute terms and/or conditions shall become a part of this contract without the written consent of an Officer of BJ-TITAN SERVICES COMPANY.

SIGNED: John Crow (WELL OWNER: OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF NO.	SERVICES/MATERIAL	U/M.	QUANTITY	PRICE	EXTENSION
10109813	Price of Job	ea	1	370.00	370.00
10109005	PTM	ea	6	1.50	9.00
10430538	8 7/8 Plug	ea	1	9.00	9.00
10410504	Common	sk	120	6.10	732.00
10415018	Per-mix	sk	80	2.50	200.00
10420145	Gel	wt	1720	6.75	1161.00
10422008	Celloflake	lb	25	1.10	27.50
10880095	Handling & Dumping	ea	200	.92	184.00
10940115	Per Ton Mile	9.5 Term TMS	57	.68	38.76
					1686.36
	Discount 25%				421.59
					1264.77
	Fax			.05	
					2779
				tax	1292.56

SERVICE REPRESENTATIVE: Wm. [Signature] PR. BOOK: **7**

The above material and service ordered by the Customer and received by: John Crow (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

STAI JUN 11 1990

CEMENTING LOG

STAGE NO.

ORIGINAL

P.O. BOX 4442 HOUSTON, TX 77210

Date 10-13-86 District Oakley Ticket No. 281441
 Company KC Resources Rig De Mont U.S.
 Lease Oakley Well No. 21
 County Thomas State KS
 Location Oakley 4N-2E Field _____

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size _____ Type _____ Weight _____ Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. 0.142 Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ Pf _____
 LEAD: Pump Time _____ hrs. Type 60/40 P.C.
10 1/2 Gal Excess _____
 Amt. 200 Sks Yield _____ ft³/sk Density _____ Pf _____
 TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ Pf _____
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bl _____

Pump Trucks Used 1452
 Bulk Equip. B-14

Float Equip: Manufacturer _____
 Shoe Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type _____ Amt. _____ Bbls. Weight _____ Pf _____
 Mud Type _____ Weight _____ Pf _____

COMPANY REPRESENTATIVE _____

CEMENTER _____

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
						Mix 200 sks 60/40 P.C.'s 10 1/2 Gal 1sk Collar Tube
						25 sks @ 2500
						100 sks @ 1700
						40 sks @ 300
						10 sks @ 40
						15 sks in Kettle
						10 sks in Mound to
						High Water @ 4:45 PM

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs. THANK YOU